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A New Species of the Genus *Tetranychopsis* Canestrini
from Japan (Acarina: Tetranychidae)

With 7 Text-figures

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(Communicated by T. UCHIDA)*

ABSTRACT *Tetranychopsis borealis* Ehara et Mori, n. sp. (Acarina: Tetranychidae) has been described and illustrated, on the basis of female specimens collected on *Rubus* in Sarobetsu peatland, northern Hokkaido. This is the first record of the genus *Tetranychopsis* Canestrini from Japan.

Spider mites of the genus *Tetranychopsis* Canestrini, 1889, are characterized by having the claws and empodia padlike, with tenent hairs. They have four pairs of dorsal propodosomal setae. No members belonging to *Tetranychopsis* have as yet been recorded from Japan. However, some specimens of an unfamiliar spider mite were recently collected on *Rubus chamaemorus* L. and *R. parvifolius* L. in Sarobetsu peatland, northern Hokkaido, by the junior author (H. M.). On examination, these specimens have been assigned by the authors to a new species of *Tetranychopsis*. This new species is here described and illustrated.

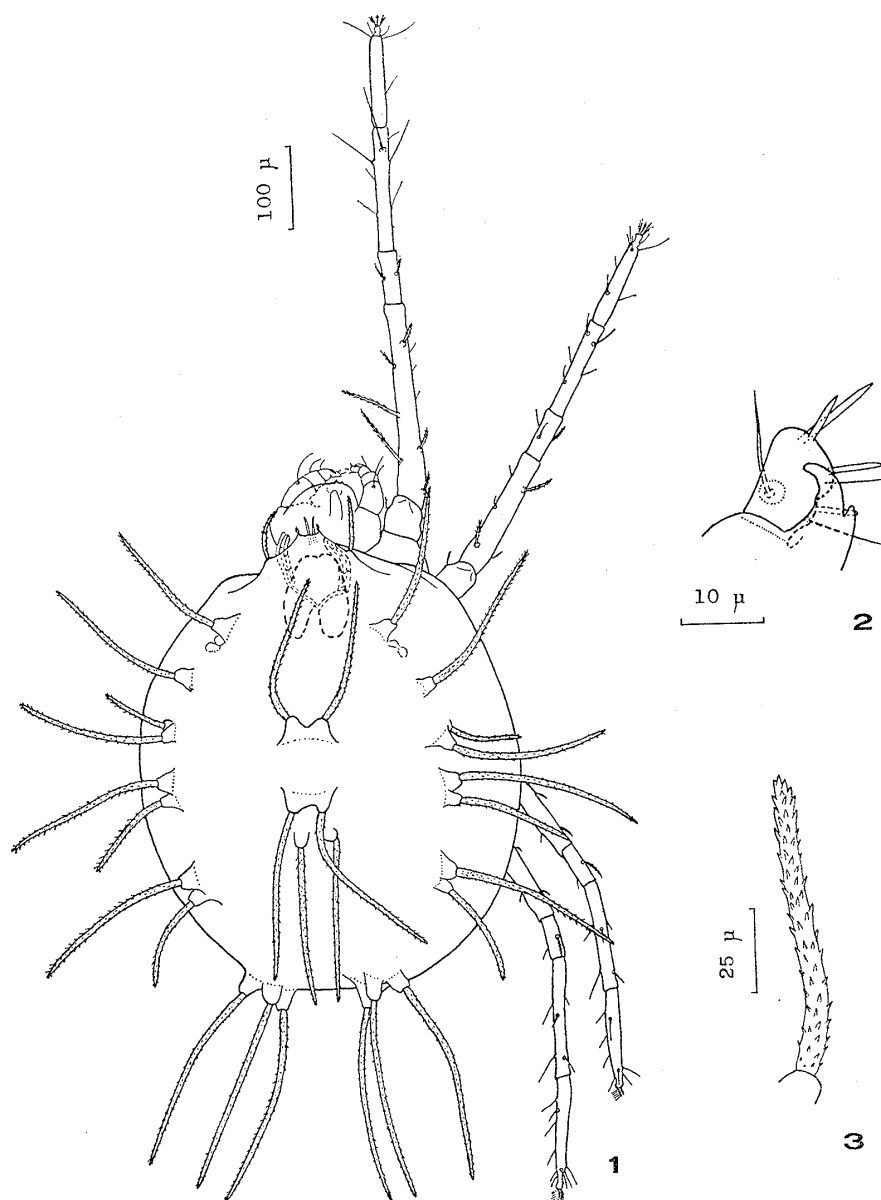
Tetranychopsis borealis Ehara et Mori, n. sp.

(Jap. name: Oni-hadani)

(Figs. 1–7)

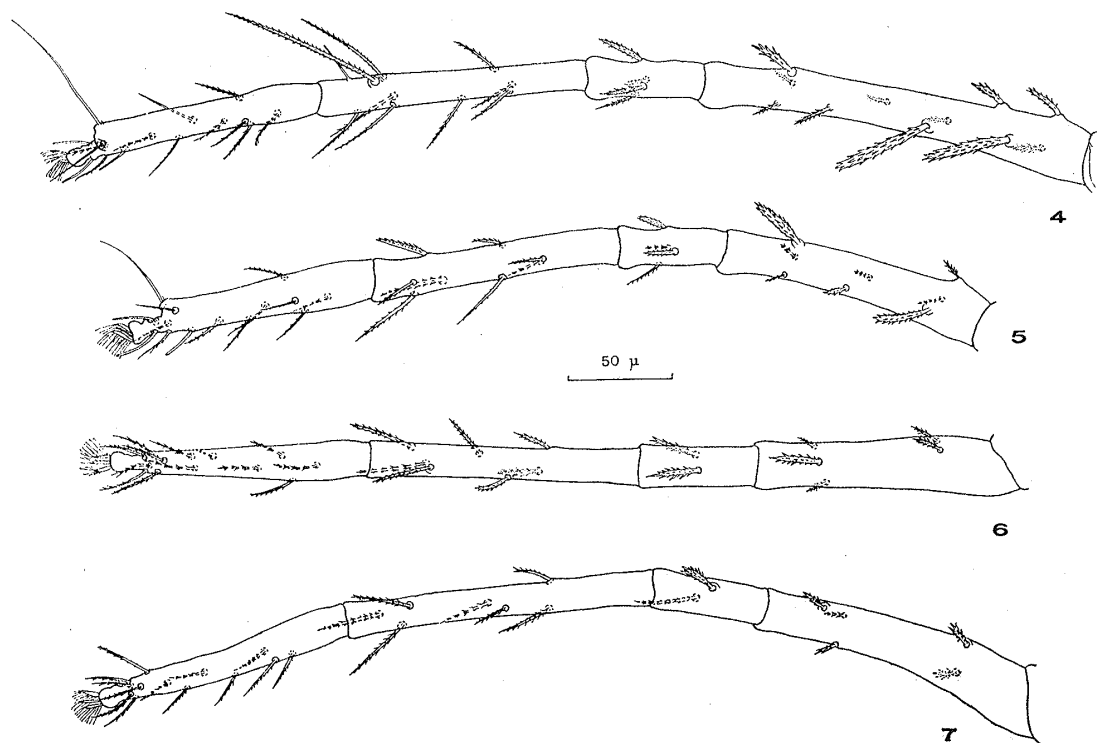
Female. Body rotund; length of body including rostrum 570 μ ; width of body 420 μ . Two anterior pairs of dorsal propodosomal setae arising from small tubercles on propodosomal projection: the first pair very small, foliaceous, serrate; the second pair lanceolate, serrate, much longer than the former. Remaining dorsal body setae strong, lanceolate, serrate, set on prominent tubercles. Lengths of dorsal body setae (in microns): first dorsal propodosomals 14, second dorsal propodosomals 61, third dorsal propodosomals 158, fourth dorsal propodosomals 179; first dorsocentral

hysterosomals 197, second dorsocentral hysterosomals 189, third dorsocentral hysterosomals 186; humerals 85; first dorsolateral hysterosomals 177, second dorsolateral hysterosomals 191, third dorsolateral hysterosomals 119, fourth dorsolateral hysterosomals 182, fifth dorsolateral hysterosomals 114; inner and outer sacrals, clunals 229. Dorsal surface of metapodosoma with irregular, transverse striae. Rostrum reaching proximal end of femur I. Distal segment of palpus with seven setae, as figured. Stylophore distinctly emarginate mediodistally. Peritreme with



Figs. 1-3. *Tetranychopsis borealis* Ehara et Mori, n. sp. (♀). Fig. 1. Dorsal view. Fig. 2. Distal segment of palpus. Fig. 3. Humeral seta.

distal anastomosing part slender. Claws and empodia as usual. Leg I, excluding coxa and claws, 545 μ long; tarsus I with 11 (sometimes 10) tactile setae and 6 sensory setae, each set of duplex setae with tactile member minute; tibia I with 9 (rarely 8) tactile and 1 sensory setae; genu I with 4 tactile setae; femur I with 10 or 11 tactile setae: two very large tactiles on proximal half of segment, no setae surpassing distal end of segment; trochanter I with 1 tactile seta; coxa I with 2 tactile setae. Tarsus II with 11 (rarely 10) tactile and 4 sensory setae, duplex setae with



Figs. 4–7. *Tetranychopsis borealis* Ehara et Mori, n. sp. (♀). Fig. 4. Tarsus, tibia, genu and femur of leg I. Fig. 5. Ditto of leg II. Fig. 6. Ditto of leg III. Fig. 7. Ditto of leg IV.

tactile member minute; tibia II with 8 tactile setae; genu II with 4 tactile setae; femur II with 8 tactile setae including 1 distal and 1 proximal, very large setae; trochanter II with 1 tactile seta; coxa II with 2 tactile setae. Tarsus III with 12 or 13 tactile setae and 1 very short sensory seta, no paired distal sensory setae; tibia III with 7 tactile setae; genu III with 2 tactile setae; femur III with 5 tactile setae; trochanter III and coxa III each with 1 tactile seta. Tarsus IV with 13 (sometimes 14) tactile setae, no sensory setae; tibia IV with 7 tactile setae; genu IV with 2 tactile setae; femur IV with 5 tactile setae; trochanter IV and coxa IV each with 1 tactile seta.

Male. Not known.

Types. *Holotype:* female, Toyotomi (Sarobetsu peatland), Prov. Sôya, Hokkaido, 14–VII–1966 (H. Mori leg.), on *Rubus chamaemorus* Linnaeus. *Paratypes:*

two females, data same as for holotype; one female, 12-VII-1966, on *Rubus parvifolius* Linnaeus, other data same as for holotype. The type-series is deposited in the Biological Institute, Faculty of Education, Tottori University. In addition, four other female specimens (with data same as for holotype) in poor condition are retained.

Remarks. *Tetranychopsis borealis* Ehara et Mori, n. sp. is similar to *T. hostilis* Reck, 1956, in having femur I with two proximal large setae, but the former is distinctive from the latter in that the sacral and clunal setae are similar in length (Reck, 1959). Further, *T. borealis* resembles *T. hystriciformis* Reck, 1956, in having the sacral and clunal setae of similar length, but this new species is distinct from the latter in leg chaetotaxy, and in the relative lengths of lateral setae on the hysterosomal dorsum (Wainstein, 1956*, 1960). In addition, the new species bears some resemblance to *T. horridus* (Canestrini et Fanzago, 1876), but differs from the latter in the chaetotaxy of body and legs (Pritchard and Baker, 1955; Rota, 1962).

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* *Tetranychopsis torquatus* Wainstein, 1956, is a synonym of *T. hystriciformis* Reck, 1956 (Reck, 1959).